

FIG.1

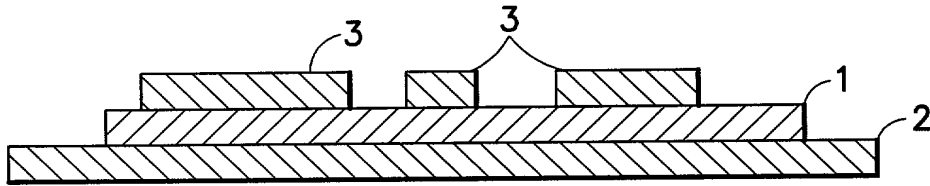


FIG.2

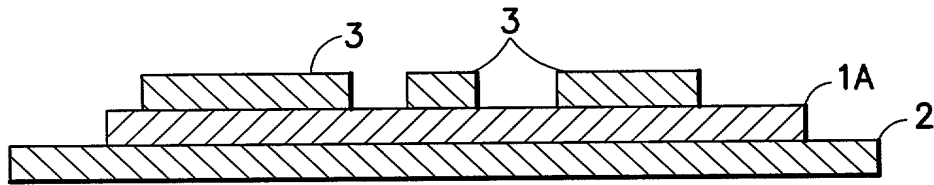


FIG.3a

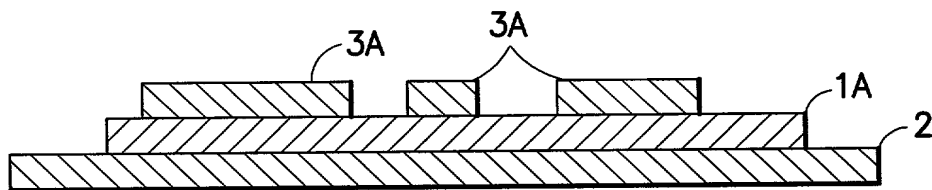


FIG.3b

2/6

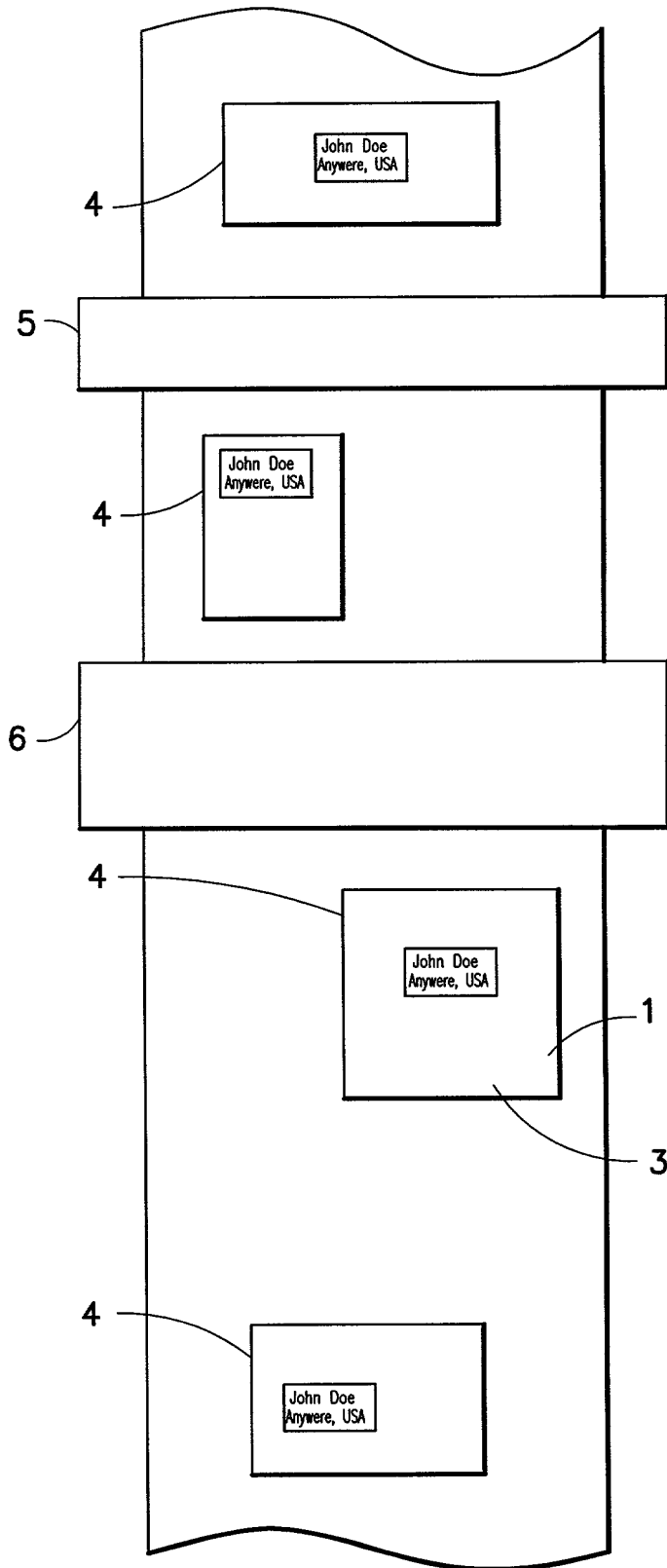


FIG.4

3/6

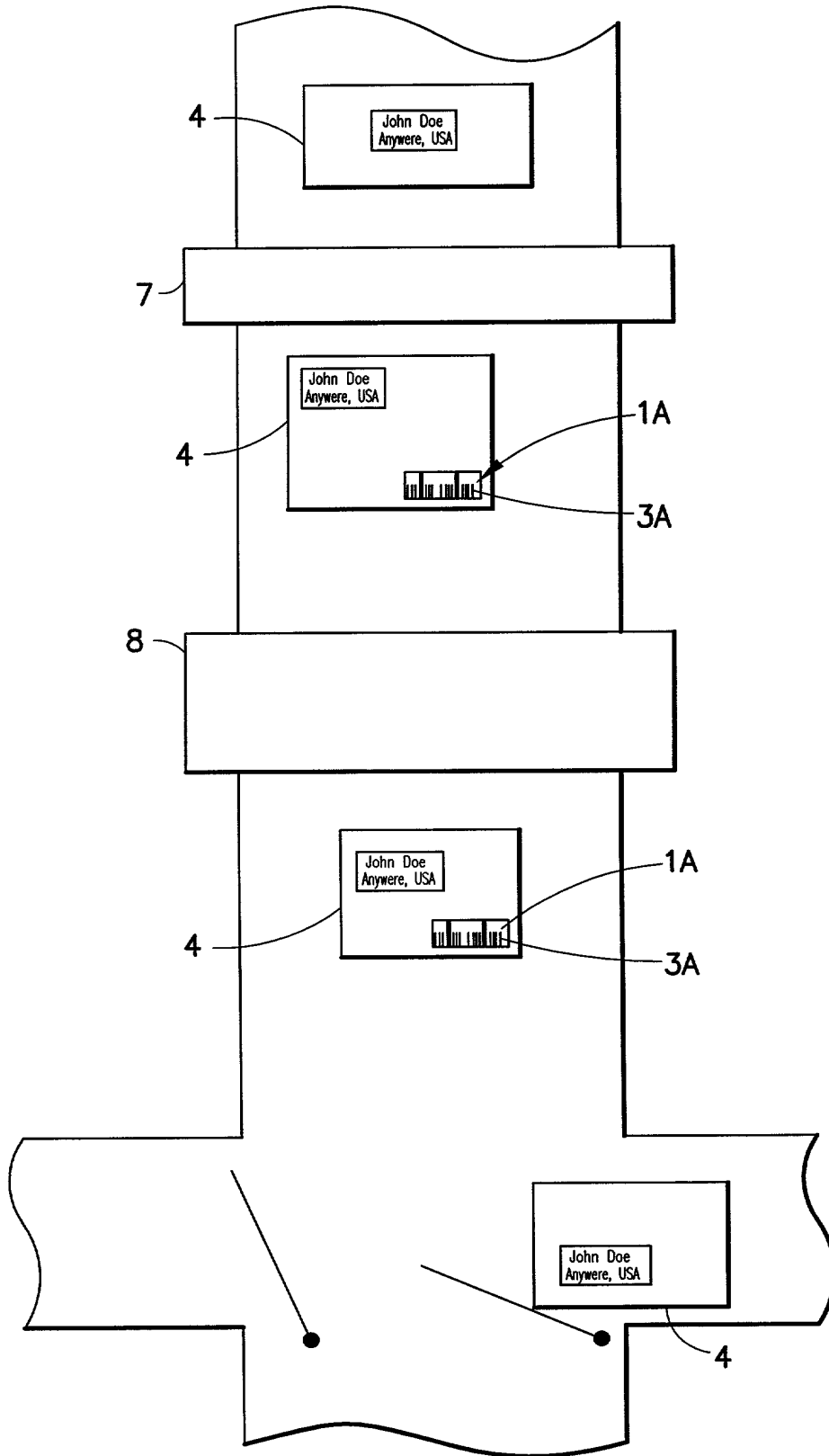


FIG.5

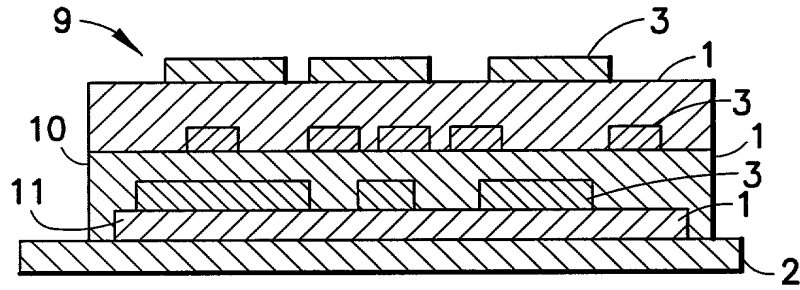


FIG.6

RESPONSE FUNCTION FOR THREE
THERMOCHROMIC MATERIALS

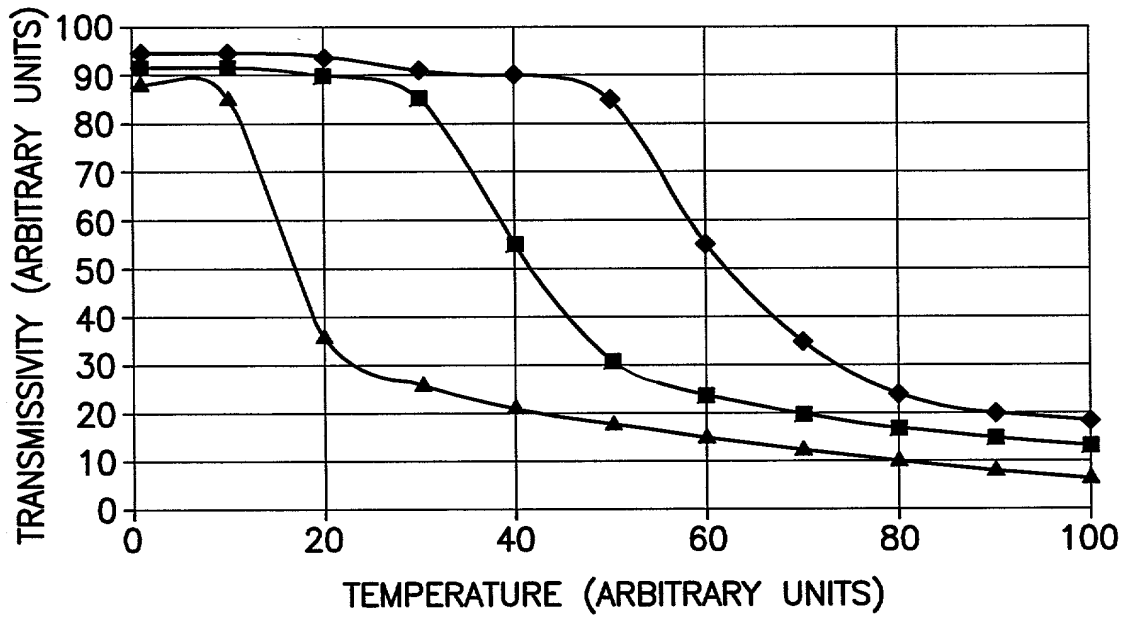


FIG.7

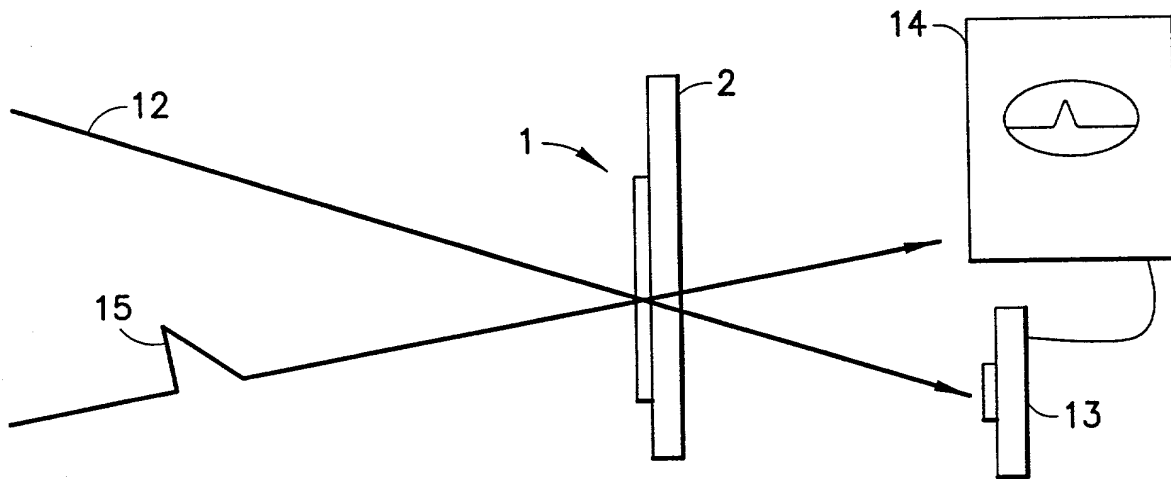


FIG.8

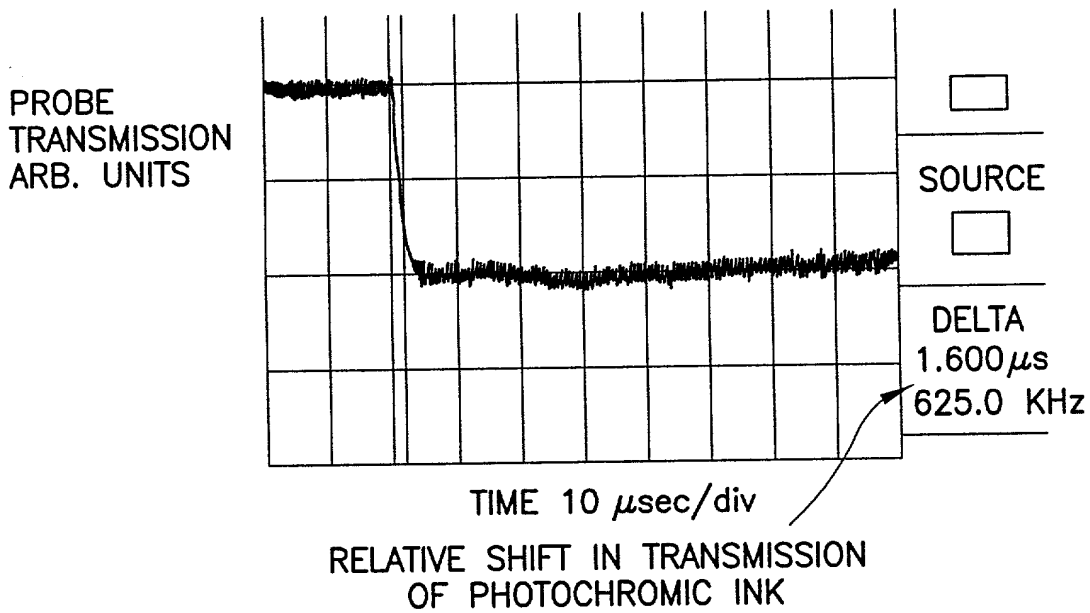
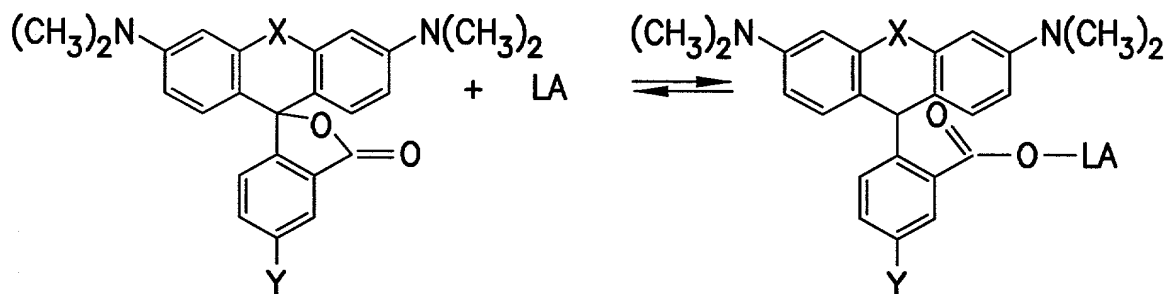


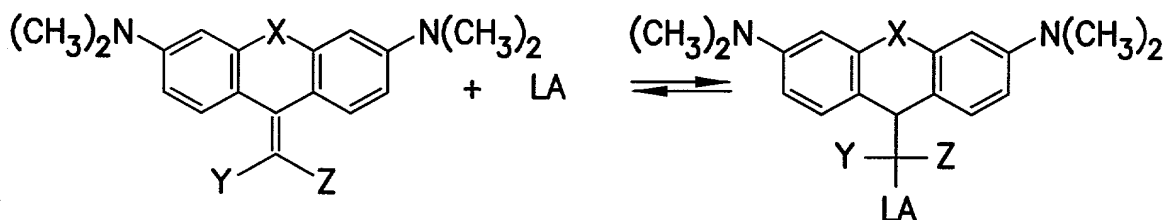
FIG.9



LACTONE (COLORLESS)
STRUCTURE 1

SCHEME 1

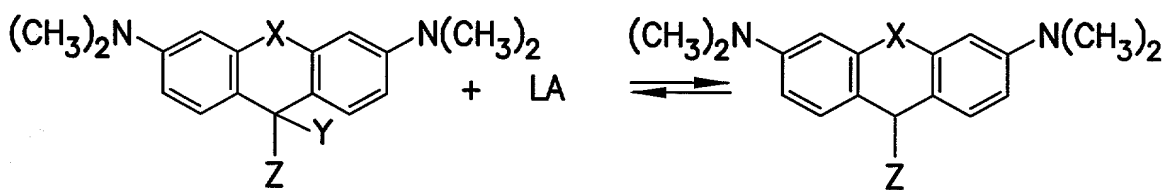
CATIONIC DYE (COLORED)



DIARYLETHYLENE (COLORLESS)
STRUCTURE 2

SCHEME 2

CATIONIC DYE (COLORED)



Z=alkyl,aryl,ect
Y=OH,Oalkyl,Oaryl

AND OTHER HETEROATOM CONTAINING MOIETIES

DI(TRI)ARYLMETHANE (COLORLESS)
STRUCTURE 3

SCHEME 3

CATIONIC DYE (COLORED)

FIG.10